

## Summer Math Think-Tac-Toe Project

Dear Parents,

To better prepare your fourth graders for the fifth grade, we are asking students to complete a summer math project. Attached you will find a tic-tac-toe board of math activities for your child to complete over summer vacation. Student should choose 3 boxes in a row, column or diagonal. We ask that parents to initial each box to indicate completion. Please use a separate piece of paper to show any work, and don't forget to attach it when you return it to your child's teacher at the beginning of the next school year. The board and all work are due on Tuesday, September 9th. In addition to the summer math calendar, please have your child practice their multiplication/division facts daily. This can be done by making flashcards or with an online flash card game. ENJOY your vacation and see you next school year.

Sincerely,

Fifth Grade Team

**Place Value Cards Sort:** Create 10 multi-digit whole numbers, up to the hundred-thousands place, and write each one on an index card. For each number, write its expanded form, word form, and standard form on another index card. Practice sorting your numbers to match the forms. Include sort directions and appropriate headers. **Reader's Theater:** Write a reader's theater about a fraction family that uses fractions in their everyday lives. The story must include a moral or lesson & describe the use of fractions. You must have between 3 and 5 characters. **Multiplication Facts Practice:** Practice basic math facts by following the directions. An adult must sign in the spaces below indicating you practiced multiplication facts!

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_

**Song, Rap, or Poem:** Write a song, rap, or poem that could teach someone how to find the area and perimeter of rectangles. Be sure to include how and why your strategies work, as well as when we would use these in our everyday lives.

**Design A Worksheet:** Design 2 worksheets; one which reviews adding/subtracting, and one which reviews multiplying/dividing whole numbers. On side 1, include examples, illustrations, and strategies for solving. On side 2, include 10 practice problems, 4 must be word problems. Submit an answer key on a separate sheet of paper for each.

**Fraction ABC's book:** Use the fraction standards from 4th grade to create an ABC book of the most important skills. Each page should include the word, definition, and an example of that vocabulary word.

**Fractions are Fun! Children's Book:** Write and illustrate a children's story which highlights two math operations using fractions. You must include strategies to solve and examples. This could be in narrative form or a non-fiction text. **Geometry Game:** Design a game to review geometry topics such as lines of symmetry, parallel/perpendicular lines, triangles, quadrilaterals, points, lines, and angles. The final project must include game board, directions, and cards/pieces.

**PowerPoint or Prezi:** Research how people use decimals in the real world, or what occupations may need them. Design a PPT or Prezi which shows pictures and describes examples of real-world applications of decimals. On the last slide, describe what life would be like without decimals. Include at least 10 slides.

# SUMMER Math THINK-Tac-TOE Project

NAME: \_\_\_\_\_

Directions: Choose at least 3 boxes, in a row, to complete. Attach all work to your think-tac-toe board.

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| <p><b>Place Value Cards Sort</b></p> <p>Create 10 multi-digit whole numbers, up to the hundred thousands place, and write each one on an index card. For each number, write its expanded form, word form, and standard form on another index card. Practice sorting your numbers to match the forms. Include sort directions and appropriate headers.</p> | <p><b>Reader's Theater:</b></p> <p>Write a reader's theater about a fraction family that uses fractions in their everyday lives. The story must include a moral or lesson + describe the use of fractions. You must have between 3 and 5 characters.</p>  | <p><b>Multiplication Facts Practice:</b></p> <p>Practice basic math facts by following the directions. An adult must sign in the spaces below indicating you practiced multiplication facts!</p> <ol style="list-style-type: none"> <li>1. _____</li> <li>2. _____</li> <li>3. _____</li> <li>4. _____</li> <li>5. _____</li> </ol>          |
| <p><b>Song, Rap, or Poem:</b></p> <p>Write a song, rap, or poem that could teach someone how to find the area and perimeter of rectangles. Be sure to include how and why your strategies work, as well as when we would use these in our everyday lives.</p>   | <p><b>Design A Worksheet:</b></p> <p>Design 2 worksheets, one which reviews adding/subtracting, and one which reviews multiplying/dividing whole numbers. On side 1, include examples, illustrations, and strategies for solving. On side 2, include 10 practice problems, 4 must be word problems. Submit an answer key on a separate sheet of paper for each.</p> | <p><b>Fraction ABC's book:</b></p> <p>Use the fraction standards from 4<sup>th</sup> grade to create an ABC book of the most important skills. Each page should include the word, definition, and an example of that vocabulary word.</p>  |
| <p><b>Fractions are Fun! Children's Book:</b></p> <p>Write and illustrate a children's story which highlights two math operations using fractions. You must include strategies to solve and examples. This could be in narrative form or a non-fiction text.</p>  | <p><b>Geometry Game:</b></p> <p>Design a game to review geometry topics such as lines of symmetry, parallel/perpendicular lines, triangles, quadrilaterals, points, lines, and angles. The final project must include game board, directions, and cards/pieces.</p>   | <p><b>PowerPoint or Prezi:</b></p> <p>Research how people use decimals in the real world, or what occupations may need them. Design a PPT or Prezi which shows pictures and describes examples of real-world applications of decimals. On the last slide, describe what life would be like without decimals. Include at least 10 slides.</p> |